

(i) said transmitter transmits synchronization information including an assignment of n transmission fixed periodic time slots, where n is an integer greater than 1, and n reception fixed periodic time slots on a selected frequency;

(ii) said radio transceives a duplex telephonic communication with the plurality of stations on the selected frequency wherein:

(a) said transmitter transmits TX speech information to each of the plurality of stations in a respective one of the n transmission time slots on the selected frequency; and

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(b) said receiver receives RX speech information from each of the plurality of stations in one of the n reception time slots on the selected frequency and receiving synchronization information from a base station; and

the plurality of stations including:

the base station receiving from the primary station the TX speech information originated from a secondary station in said respective transmission time slot and transmitting the RX speech information in said respective reception time slot and transmitting the synchronization information; and

the secondary station having:

(i) a radio receiver which receives the synchronization information from the primary station and identifies the assignment of time slots and which receives from the

primary station the TX speech information originating from the base station in said respective transmission time slot; and

(ii) a radio transmitter which transmits the RX speech information in said respective reception time slot; and

wherein using the primary station for transmissions between the base station and secondary station is transparent to the base station and secondary station, and the primary station and the secondary station itself detects a frame timing from received signals and aligns its transmitting frame timing accordingly and the secondary station is effectively synchronized to the transmitted synchronization information of the base station via the primary station transmitted synchronization information.

Sub H2 15. (Five Times Amended) A telecommunication station for communicating with a base station and a secondary station using wireless transmissions, the station comprising:

a transmitter which:

(i) transmits synchronization information including the assignment of $2n$ fixed periodic time slots, where n is an integer greater than 1, on a selected frequency, n fixed periodic transmit time slots for transmission from said telecommunication station and n fixed periodic reception time slots for reception by said telecommunication station; and

(ii) transmits TX information to the base station and the secondary station on the selected frequency in respective ones of said n assigned transmit slots; and

a receiver which receives RX information from the base station and the secondary station on the selected frequency in respective ones of said n assigned reception slots and receives synchronization information from the base station; and

wherein using the telecommunication station for communications between the base station and secondary station is transparent to the base station and secondary station, and the primary station and the secondary station itself detects a frame timing from received signals and aligns its transmitting frame timing accordingly and the secondary station is effectively synchronized to the synchronization information of the base station via the telecommunication station transmitted synchronization information.

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19. (Five Times Amended) A telecommunication station for communicating with a base station and a secondary station using wireless transmissions, the telecommunication station comprising:

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a transmitter which:

(i) transmits synchronization information including the assignment of fixed periodic time slots on a selected frequency, at least two fixed periodic transmit time slots for

transmission from said telecommunication station and at least two fixed periodic reception time slots for reception by said telecommunication station; and

(ii) transmits a signal carrying information received from the base station on the selected frequency in a first assigned transmit slot and carrying information received from the secondary station on the selected frequency in a second assigned transmit slot; and

a receiver which:

(i) receives the information transmitted from the base station on the selected frequency in a first assigned reception slot and synchronization information from the base station; and

(ii) receives the information transmitted from the secondary station on the selected frequency in a second assigned reception slot; and

wherein using the telecommunication station for communications between the base station and secondary station is transparent to the base station and secondary station, and the primary station and the secondary station itself detects a frame timing from received signals and aligns its transmitting frame timing accordingly and the secondary station is effectively synchronized to the synchronization information of the base station via the telecommunication station transmitted synchronization information.

Please add the following new claim.

Applicant: Kaewall, Jr. et al.
Application No.: 09/356,845

32. A telecommunication system according to claim 11 wherein the secondary station is capable of receiving the base station synchronization information and synchronizing to the base station.

REMARKS

Claims 11, 13-23, 25-27 and 29-31 are pending this application. By this reply, claims 11, 15 and 19 have been amended and new claim 32 has been added.

In the Office Action, claims 11, 13-23, 25-27 and 29-30 were rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 3,879,581 (Schlosser et al.). Schlosser discloses a satellite station which communicates with the plurality of subscriber stations. The Schlosser satellite station sends synchronization information to subscriber stations so that these stations can synchronize to the Schlosser satellite station. This arrangement is completely different than the present invention.

The present invention has a base station transmitting synchronization information to a primary/telecommunication station so that that station can synchronize to the base station. The primary/telecommunication station transmits synchronization information to a secondary station so that the secondary station can synchronize to the primary/telecommunication station. As a result, the secondary station is effectively synchronized to the synchronization information transmitted by the base station. As a result, it is transparent to the secondary